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A P P L I C A T I O N

for

UNITED STATES LETTERS PATENT

on

CLONING AND RECOMBINANT PRODUCTION
OF RECEPTOR(S) OF THE ACTIVIN/TGF- β SUPERFAMILY

METHODS OF SCREENING FOR COMPOUNDS THAT BIND
TO ACTIVIN RECEPTOR

by
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Number of Drawings: Six

Docket No.: P41 9981

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CLONING AND RECOMBINANT PRODUCTION
OF RECEPTOR(S) OF THE ACTIVIN/TGF- β SUPERFAMILY

RELATED APPLICATIONS

is a division of 08/476,123, filed June 7, 1995, now PAT 6,123,456, 1995

This application is a continuation-in-part of United States Serial Number 08/300,584, filed September 2, 1994, now pending, which is a continuation of United States Serial Number 07/880,220, filed May 8, 1992, now abandoned, which is a continuation-in-part of United States Serial Number 07/773,229, filed October 9, 1991, now abandoned, which is, in turn, a continuation-in-part of United States Serial Number 07/698,709, filed May 10, 1991, now abandoned.

ACKNOWLEDGEMENT

This invention was made with Government support under Grant Numbers HD 13527 and DK 26741, awarded by the National Institutes of Health. The Government has certain rights in this invention.

FIELD OF THE INVENTION

The present invention relates to receptor proteins, DNA sequences encoding same, and various uses therefor.

BACKGROUND OF THE INVENTION

Activins are dimeric proteins which have the ability to stimulate the production of follicle stimulating hormone (FSH) by the pituitary gland. Activins share a common subunit with inhibins, which inhibit FSH secretion.

Activins are members of a superfamily of polypeptide growth factors which includes the inhibins, the transforming growth factors- β (TGF- β), Mullerian duct